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V

AMENDMENT

In the specification

On page 17, please amend the paragraph containing line 20, as follows:

B¹ Figure 37 depicts a nucleotide SEQ ID NO: 17 and amino acid sequence SEQ ID NO: 18 for ADP.

On page 77, please amend the paragraph containing lines 28 and 31, as follows:

B² In some embodiments, a melanocyte-specific TRE comprises sequences derived from the 5' flanking region of a human tyrosinase gene depicted in Table 14. In some of these embodiments, the melanocyte-specific TRE comprises tyrosinase nucleotides from about -231 to about +65 relative to the transcription start site (from about nucleotide 244 to about nucleotide 546 of SEQ ID NO:10) and may further comprise nucleotides from about -1956 to about -1716 relative to the human tyrosinase transcription start site (from about nucleotide 6 to about nucleotide -243 of SEQ ID NO:10). A tyrosinase TRE can comprise nucleotides from about -231 to about + 65 juxtaposed to nucleotides from about -1956 to about -1716. It has been reported that nucleotides from about -1956 to about -1716 relative to the human tyrosinase transcription start site can confer melanocyte-specific expression of an operably linked reporter gene with either a homologous or a heterologous promoter. Accordingly, in some embodiments, a melanocyte-specific TRE comprises nucleotides from about -1956 to about -1716 operably linked to a heterologous promoter.

On page 86, please amend the paragraph containing lines 30 and 33, as follows:

B³ IRES elements were first discovered in picornavirus mRNAs (Jackson RJ, Howell MT, Kaminski A (1990) *Trends Biochem Sci* 15(12):477-83) and Jackson RJ and Kaminski, A. (1995) *RNA* 1(10):985-1000). The present invention provides improved adenovirus vectors comprising co-transcribed first and second genes under transcriptional control of a heterologous, target cell-specific TRE, and wherein the second gene (i.e., coding region) is under translational control of an internal ribosome entry site (IRES). Any IRES may be used in the adenovirus vectors of the invention, as long as they exhibit requisite function in the vectors. Example of IRES which can be used in the present invention include those provided in Table I and referenced in Table II. Examples of IRES elements include the encephelomyocarditis virus (EMCV) which is commercially

3
available from Novagen (Duke et al. (1992) *J. Virol* 66(3):1602-9) the sequence for which is depicted in Table 12 (SEQ ID NO:1). Another example of an IRES element disclosed herein is the VEGF IRES (Huez et al. (1998) *Mol Cell Biol* 18(11):6178-90). This IRES has a short segment and the sequence is depicted in Table 12 (SEQ ID NO:2).

✓
On page 131, please amend Table 9, as follows:

Table 9

B4

Primer	Sequence	Note
A.	5'-GACGTCGACTAATTCGGTTATTTTCCA SEQ ID NO: 19	For PCR EMCV IRES, <i>GTCGAC</i> is a SalI site.
B.	5'-GACGTCGACATCGTGTTTTTCAAAGGAA SEQ ID NO: 20	For PCR EMCV IRES, <i>GTCGAC</i> is a SalI site.
C.	5'-CCTGAGACGCCCCGACATCACCTGTG SEQ ID NO: 21	Ad5 sequence to 1314 to 1338.
D.	5'- <u>GTCGACCATT</u> CAGCAAACAAAGGCGTTAAC SEQ ID NO: 22	Antisense of Ad5 sequence 1572 to 1586. <i>GTCGAC</i> is a SalI site. Underline region overlaps with E.
E.	5'- <u>TGCTGAATGGTCGACAT</u> TGGAGGCTTGGGAG SEQ ID NO: 23	Ad5 sequence 1714 to 1728. <i>GTCGAC</i> is a SalI site. Underline region overlaps with D.
F.	5'-CACAAACCGCTCTCCACAGATGCATG SEQ ID NO: 24	Antisense of Ad5 sequence 2070 to 2094.

✓
On page 134, please amend the paragraph containing lines 22 and 23, as follows:

The 519 base pair EMCV IRES segment was PCR amplified from Novagen's pCITE vector by primers A/B:

5
primer A: 5'-GACGTCGACTAATTCGGTTATTTTCCA SEQ ID NO: 19

primer B 5'-GACGTCGACATCGTGTTTTTCAAAGGAA SEQ ID NO: 20 (*GTCGAC* is a SalI site).

On page 135, please amend the paragraph containing lines 13 and 14, as follows:

CP1088

6
The 2.2kb (-2225 to +1) human UPII was amplified from CP657 with primer 127.2.1 (5'-AGGACCGGTCACTATAGGGCACGCGTGGT-3'(SEQ ID NO: 25)) PLUS 127.2.2 (5'-AGGACCGGTGGGATGCTGGGCTGGGAGGTGG-3'(SEQ ID NO: 26)) and digested with PinAI and ligated with CP629 cut with PinAI.

On page 137, please amend Table 11, as follows:

TABLE 11

Name	Vector	Ad 5 Vector	E1A TRE	E1B TRE	E3
CV874	CP1086	pBHGE3	1.9 kb mUPII	IRES	intact
CV875	CP1087	pBHGE3	1.0 kb hUPII	IRES	intact
CV876	CP1088	pBHGE3	2.2 kb hUPII	IRES	intact
CV877	CP1089	pBHGE3	1.0 kb mUPII	1.0 kb hUPII (E1B promoter deleted)	intact
CV882	CP1129	pBHGE3	1.8 kb hUPII	IRES	intact
CV884	CP1131	pBHGE3	1.8 kb hUPII	IRES (E1B 19-kDa deleted)	intact

Viruses are tested and characterized as described above.

Primer sequences:

96.74.1 GACGTCGACATCGTGTTTTTCAAAGGAA SEQ ID NO: 20
96.74.2 GACGTCGACTAATTCCGGTTATTTTCCA SEQ ID NO: 19
96.74.3 CCTGAGACGCCCGACATCACCTGTG SEQ ID NO: 21
96.74.4 TGCTGAATGGTCGACATGGAGGCTTGGGAG SEQ ID NO: 23
96.74.5 CACAACCGCTCTCCACAGATGCATG SEQ ID NO: 24
96.74.6 GTCGACCATTCAGCAAACAAAGGCGTTAAC SEQ ID NO: 22
100.113.1 AGGGGTACCCACTATAGGGCACGCGTGGT SEQ ID NO: 27
100.113.2 ACCCAAGCTTGGGATGCTGGGCTGGGAGGTGG SEQ ID NO: 28
127.2.2 AGGACCGGTGGGATGCTGGGCTGGGAGGTGG SEQ ID NO: 26
127.50.1 AGGACCGGTCAGGCTTACCCCAGACCCAC SEQ ID NO: 29
31.166.1 TGCGCCGGTGTACACAGGAAGTGA SEQ ID NO: 30

32.32.1 GAGTTTGTGCCATCGGTCTAC SEQ ID NO: 31
32.32.2 AATCAATCCTTAGTCCTCCTG SEQ ID NO: 32
51.176 GCAGAAAAATCTTCCAAACACTCCC SEQ ID NO: 33
99.120.1 ACGTACACCGGTCTGTTACATAACTTAC SEQ ID NO: 34
99.120.2 CTAGCAACCGGTCTGTTCACTAAACG SEQ ID NO: 35

On page 139, please amend the paragraph containing line 11, as follows:

A. ***Example 16: Construction of a Replication-Competent Adenovirus Vector with a CEA-TRE and a EMCV IRES***

Using a strategy similar to Example 1, the TRE fragment from Carcinembryonic antigen (CEA)(Table 14, SEQ ID NO:14) is used to construct virus designated CV873. A PinAI fragment containing the CEA-TRE was cloned into the PinAI site in front of E1A of CP627 for the transcriptional control. The resultant plasmid CP1080 is used together with pBHGE3 to generate CV873.

On page 167, please amend the paragraph containing line 3, as follows:

1. Table 12: IRES Sequences

SEQ ID NO:1 A 519 base pair IRES obtainable from encephelomyocarditis virus (EMCV).

1 GACGTCGACTAATTCCGGTTATTTTCCACCATATTGCCGTCTTTTGGCAA
Sall
51 TGTGAGGGCCCGGAAACCTGGCCCTGTCTTCTTGACGAGCATTCTAGGG
101 GTCTTTCCCCTCTCGCCAAAGGAATGCAAGGTCTGTTGAATGTCGTGAAG
151 GAAGGAGTTCTCTGGAAGCTTCTTGAAGACAAACAACGTCTGTAGCGAC
201 CCTTTGCAGGCAGCGGAACCCCCACCTGGCGACAGGTGCCTCTGCGGCC
251 AAAAGCCACGTGTATAAGATACACCTGCAAAGGCGGCACAACCCCAAGTGC
301 CACGTTGTGAGTTGGATAGTTGTGGAAAGAGTCAAATGGCTCTCCTCAAG
351 CGTATTCAACAAGGGGCTGAAGGATGCCAGAAGGTACCCCATTTGTATGG
401 GATCTGATCTGGGGCCTCGGTGCACATGCTTTACATGTGTTTAGTCGAGG

451 TTAAAAAACGTCTAGGCCCCCGAACCACGGGGACGTGGTTTTCTTTGA

SalI

501 AAAACACGATGTCGACGTC

On page 167, please amend the paragraph containing line 19, as follows:

SEQ ID NO:2 An IRES obtainable from vascular endothelial growth factor

(VEGF).

1 ACGTAGTCGACAGCGCAGAGGCTTGGGGCAGCCGAGCGGCAGCCAGGCCC
SalI
51 CGGCCCCGGGCCTCGGTTCCAGAAGGGAGAGAGCCCGCCAAGGCGCGCAA
101 GAGAGCGGGCTGCCTCGCAGTCCGAGCCGGAGAGGGAGCGCGAGCCGCGC
151 CGGCCCCGACGGCCTCCGAAACCATGGTCGACACGTA
SalI

On page 167, please amend the paragraph containing line 28, as follows:

SEQ ID NO:3 A 5'UTR region of HCV.

1 GCCAGCCCCCTGATGGGGGCGACACTCCGCCATGAATCACTCCCCTGTGAGGAAGTACTG
61 TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC
121 CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG
181 GACGACCGGGTCTTTCTTGGATTAACCCGCTCAATGCCTGGAGATTGGGGCTGCCCCC
241 GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG
301 GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACC (341)

On page 168, please amend the paragraph containing line 1, as follows:

SEQ ID NO:4 A 5'UTR region of BiP **SEQ ID NO:4**

1 CCCGGGGTCACTCCTGCTGGACCTACTCCGACCCCCTAGGCCGGGAGTGAAGGCGGGACT
61 TGTGCGGTTACCAGCGGAAATGCCTCGGGGTGAGAAGTCGCAGGAGAGATAGACAGCTGC
121 TGAACCAATGGGACCAGCGGATGGGGCGGATGTTATCTACCATTGGTGAACGTTAGAAAC
181 GAATAGCAGCCAATGAATCAGCTGGGGGGGCGGAGCAGTGACGTTTATTGCGGAGGGGGC
241 CGCTTCGAATCGGCGGCGGCCAGCTTGGTGGCTGGGCCAATGAACGGCCTCCAACGAGC

B¹²

301 AGGGCCTTCACCAATCGGCGGCCTCCACGACGGGGCTGGGGGAGGGTATATAAGCCGAGT
361 AGGCGACGGTGAGGTGACGCCGGCCAAGACAGCACAGACAGATTGACCTATTGGGGTGT
421 TTCGCGAGTGTGAGAGGGAAGCGCCGCGGCCTGTATTTCTAGACCTGCCCTTCGCCTGGT
481 TCGTGGCGCCTTGTGACCCCGGGCCCTGCCGCCTGCAAGTCGAAATTGCGCTGTGCTCC
541 TGTGCTACGGCCTGTGGCTGGACTGCCTGCTGCTGCCCAACTGGCTGGCAAGATG (595)

On page 168, please amend the paragraph containing line 15, as follows:

SEQ ID NO:5 A 5'UTR of PDGF SEQ ID NO:5

B¹³

1 GTTTGCACCTCTCCCTGCCC GG GTGCTCGAGCTGCCGTTGCAAAGCCAAC TTTGGAAAAA
61 GTTTTTTTGGGGGAGACTTGGGCCTTGAGGTGCCAGCTCCGCGCTTTCCGATTTTGGGGG
121 CTTTCCAGAAAATGTTGCAAAAAAGCTAAGCCGGCGGGCAGAGGAAAACGCCTGTAGCCG
181 GCGAGTGAAGACGAACCATCGACTGCCGTGTTCTTTTCTCTTGGAGGTTGGAGTCCCC
241 TGGGCGCCCCCACACCCCTAGACGCCTCGGCTGGTTCGCGACGCAGCCCCCGGCCGTGG
301 ATGCTGCACTCGGGCTCGGGATCCGCCCAGGTAGCCGGCCTCGGACCCAGGTCCTGCGCC
361 CAGGTCCTCCCCTGCCCCCAGCGACGGAGCCGGGGCCGGGGGCGGCGGCCGGGGGCA
421 TGCGGGTGAGCCGCGGCTGCAGAGGCCTGAGCGCCTGATCGCCGCGGACCTGAGCCGAGC
481 CCACCCCCCTCCCCAGCCCCCACCCTGGCCGCGGGGGCGGCGCGCTCGATCTACGCGTC
541 CGGGGCCCCGCGGGGCCGGGCCCGGAGTCGGCATG (575)

Beginning on page 169 and ending on page 172, please amend the paragraph containing lines 7 (page 169) and 1 (page 170), as follows:

2. Table 14: TRE Sequences

Nucleotide sequence of a human uroplakin II 5' flanking region. Position +1 (the translational start site) is denoted with an asterisk. SEQ ID NO:6 (number 1 of SEQ ID NO:6 corresponds to position -2239 with respect to the translational start site).

B¹⁴

TCGATAGGTA	CCCACTATAG	GGCACGCGTG	GTCGACGGCC	CGGGCTGGTC
1				50

TGGCAACTTC	AAGTGTGGGC	CTTTCAGACC	GGCATCATCA	GTGTTACGGG
------------	------------	------------	------------	------------

51 100

GAAGTCACTA 101	GGAATGCAGA	ATTGATTGAG	CACGGTGGCT	CACACCTGTA 150
ATCCCAACAC 151	TCTGGGAGGC	CAAGGCAGGT	GGATCACTTG	TGGTCAGGAG 200
TTTGAGACCA 201	GCCTGGCCAA	CATGGTGAAA	CCTCATCTCT	ACTAAAAATA 250
CAAAAATTAG 251	CTGGGAATGG	TGGCACATGC	CTATAATCCC	AGTTACTCAG 300
GAGGCTGAGG 301	CAGGAGAATC	ATTTGAACCT	GGGAGGCAGA	GGTTGCAGTG 350
AGCCGAGATC 351	ACGCCACTGC	ACTCCAGCCT	GGGTGACACA	GCGAGACTCT 400
GTCTCAAAAA 401	AAAAAAAATG	CAGAATTTCA	GGCTTCACCC	CAGACCCACT 450
GCATGACTGC 451	ATGAGAAGCT	GCATCTTAAC	AAGATCCCTG	GTAATTCATA 500
CGCATATTAA 501	ATTTGGAGAT	GCACTGGCGT	AAGACCCTCC	TACTCTCTGC 550
TTAGGCCCAT 551	GAGTTCTTCC	TTTACTGTCA	TTCTCCACTC	ACCCCAAACCT 600
TTGAGCCTAC 601	CCTTCCCACC	TTGGCGGTAA	GGACACAACC	TCCCTCACAT 650
TCCTACCAGG 651	ACCCTAAGCT	TCCCTGGGAC	TGAGGAAGAT	AGAATAGTTC 700
GTGGAGCAAA 701	CAGATATACA	GCAACAGTCT	CTGTACAGCT	CTCAGGCTTC 750
TGGAAGTTCT 751	ACAGCCTCTC	CCGACAAAGT	ATTCCACTTT	CCACAAGTAA 800
CTCTATGTGT 801	CTGAGTCTCA	GTTTCCACTT	TTCTCTCTCT	CTCTCTCTCT 850
CAACTTTCTG 851	AGACAGAGTT	TCACTTAGTC	GCCCAGGCTG	GAGTGCAGGG 900
GCACAATCTC 901	GGCTCACTGC	AACCTCCACC	TCCTGGGTTC	AAGTGTTTCT 950
CCTGTCTCAG	CCTCCCGAGT	AGCTGGGATT	ACAGGCACAC	ACCACCGCGT

951 1000

TAGTTTTTGT	ATTTTTGGTA	GAGATGGTGT	TTCGCCATAT	TGGCCAGGCT	1050
1001					
GATCTCGAAC	TCCTGACCTC	AGGTGATCCG	CCCACCTCGG	CCTCCCAAAG	1100
1051					
TGCTGGGATT	ACAGGCATGA	GCCACCACGC	CCGGCTGATC	TCTTTTCTAT	1150
1101					
TTTAATAGAG	ATCAAACCTCT	CTGTGTTGCC	TAGGCTGGTC	TTGAACTCCT	1200
1151					
GGCCTCGAGT	GATCCTCCCA	CCTTGGCCTC	CCAAAGTGTT	GAGATTACAG	1250
1201					
GCATGAGCCA	CTGTGCCTGG	CCTCAGTTCT	ACTACAAAAG	GAAGCCAGTA	1300
1251					
CCAGCTACCA	CCCAGGGTGG	CTGTAGGGCT	ACAATGGAGC	ACACAGAACC	1350
1301					
CCTACCCAGG	GCCCCGAAGA	AGCCCCGACT	CCTCTCCCCT	CCCTCTGCCC	1400
1351					
AGAACTCCTC	CGCTTCTTTC	TGATGTAGCC	CAGGGCCGGA	GGAGGCAGTC	1450
1401					
AGGGAAGTTC	TGTCTCTTTT	TCATGTTATC	TTACGAGGTC	TCTTTTCTCC	1500
1451					
ATTCTCAGTC	CAACAAATGG	TTGCTGCCCA	AGGCTGACTG	TGCCCACCCC	1550
1501					
CAACCCCTGC	TGGCCAGGGT	CAATGTCTGT	CTCTCTGGTC	TCTCCAGAAG	1600
1551					
TCTTCCATGG	CCACCTTCGT	CCCCACCCTC	CAGAGGAATC	TGAAACCGCA	1650
1601					
TGTGCTCCCT	GGCCCCCACA	GCCCCTGCCT	CTCCCAGAGC	AGCAGTACCT	1700
1651					
AAGCCTCAGT	GCACTCCAAG	AATTGAAACC	CTCAGTCTGC	TGCCCCTCCC	1750
1701					
CACCAGAATG	TTTCTCTCCC	ATTCTTACCC	ACTCAAGGCC	CTTTCAGTAG	1800
1751					
CCCCTTGGAG	TATTCTCTTC	CTACATATCA	GGGCAACTTC	CAAACCTCATC	1850
1801					
ACCCTTCTGA	GGGGTGGGGG	AAAGACCCCC	ACCACATCGG	GGGAGCAGTC	

1851 1900

CTCCAAGGAC TGGCCAGTCT CCAGATGCCC GTGCACACAG GAACACTGCC
1901 1950

TTATGCACGG GAGTCCCAGA AGAAGGGGTG ATTTCTTTCC CCACCTTAGT
1951 2000

TACACCATCA AGACCCAGCC AGGGCATCCC CCCTCCTGGC CTGAGGGCCA
2001 2050

GCTCCCCATC CTGAAAAACC TGTCTGCTCT CCCACCCCT TTGAGGCTAT
2051 2100

AGGGCCCAAG GGGCAGGTTG GACTGGATTC CCCTCCAGCC CCTCCCGCCC
2101 2150

CCAGGACAAA ATCAGCCACC CCAGGGGCAG GGCCTCACTT GCCTCAGGAA
2151 2200

CCCCAGCCTG CCAGCACCTA TTCCACCTCC CAGCCCAGCA
2201 2239

Beginning on page 172 and ending on page 177, please amend the paragraph containing lines 33 and 34 (page 172), as follows:

Nucleotide sequence of a mouse uroplakin II 5' flanking region. The translational start site is denoted with an asterisk. SEQ ID NO:7 (number 1 of SEQ ID NO:7 corresponds to position - 3592 with respect to the translational start site).

CTCGAGGATCTCGGCCCTCTTTCTGCATCCTTGTCCTAAATCATTTTCAT
1 50

ATCTTGCTAGACCTCAGTTTGAGAGAAACGAACCTTCTCATTTTCAAGTT
51 100

GAAAAAAAAAAGAGGTTCAAAGTGGCTCACTCAAAGTTACAAGCCAACAC
101 150

TCACCACTACGAGTACAATGGCCACCATTAGTGCTGGCATGCCCCAGGAG
151 200

ACAGGCATGCATATTATTCTAGATGACTGGGAGGCAGAGGGGTGGCCTAG
201 250

TGAGGTCAGACTGTGGACAGATCAGGCAGATGTGGGTTCTGATCCCAATT
251 300

CCTCAGGCCGCAGAACTACTGTGGTTCAAGAAGGGGACAAAAGGACTGCA
301 350

GTCCGGAACAGGAGGTCCATTTGAGAGCTGACTGAGCAGAAGAGGAAAGT
351 400

GAAGAACTTCTGGGGCAAGAGCTTACCCTACTTTACAGCTTTGTTGTCTT
401 450

CTTTACTCCAGGGGCGTCCCTGGTACTCAGTAAATGTCTGTTGGCTTGAG
451 500

GAACATATGTGTAAGGAGGAAGGAGAGGGAACTTGAGGGAGTTAAGACTC
501 550

AGAATCAATCAAGGAGAGGACAGCAGAGAAGACAGGGTTTGGGAGAGAG
551 600

ACTCCAGACATTGGCCCTGGTTCCCTTCTTGCCACTGTGAAACCCTCCA
601 650
GAGGAACTGAGTGCTGTGGCTTTAAATGATCTCAGCACTGTCAGTGAAGC
651 700

GCTCTGCTCAAAGAGTTATCCTCTTGCTCCTGTGCCGGGGCCTCCCCCTC
701 750

CTCTCAGCTCCCAAACCCTTCTCAGCCACTGTGATGGCATAATTAGATGC
751 800

GAGAGCTCAGACCGTCAGGTCTGCTCCAGGAACCACCCATTTTCCCCAAC
801 850

CCCAGAGAAAGGTCCTAGTGGAAGAGTGGGGGCCACTGAAGGGCTGATGG
851 900

GGTTCTGTCCTTTCCCCCATGCTGGGTGGACTTAAAGTCTGCGATGTGTG
900 950

TAGGGGGTAGAAGACAACAGAACCTGGGGGCTCCGGCTGGGAGCAGGAGG
951 1000

AACTCTCACCAGACGATCTCCAAATTTACTGTGCAATGGACGATCAGGAA
1001 1050

ACTGGTTCAGATGTAGCTTCTGATACAGTGGGTCTGAGGTAAAACCCGAA
1051 1100

ACTTAATTTCTTTCAAAAATTTAAAGTTGCATTTATTATTTTATATGTGT
1101 1150

GCCCATATGTGTGCCACAGTGTCTATGTGGAGGTCAGAGGGCAAGTTGTG
1151 1200

GGCATTGGCTCTCTCCTTTCATAATGTGGCTTCTGGGGACCAAATGTCA

1201 1250
GGCATGGTGGCAAGAGCTTTTACCTGTTGAGCCATCTCATGGTTTCGTAA
1251 1300
AACTTCCTATGACGCTTACAGGTAACGCAGAGACACAGACTCACATTTGG
1301 1350
AGTTAGCAGATGCTGTATTGGTGTAACACTCATAACAGACACACACAC
1351 1400
ATACTCATAACACACACACACACTTATCACATGCACACACATACTCGTA
1401 1450
TACACACAGACACACACACATGCACTCTCACATTCACATATTCATACACA
1451 1500
TCCACACACACACTCATCCACACACACAGACACACATACTCATCCACACA
1501 1550
CACACACACACATACTCATAACACACACACAGACACACATACTCATAACACA
1551 1600
CACACAGACACACACATATAATCATAACACACAGACACACTCATAACATG
1601 1650
TGCACACACACACTCATCCACACACACACACTCATAACACACACACTCA
1651 1700
TACACACACACACTCATAACACACACACACGAGGTTTTTCTCAGGCTGCCT
1701 1750
TTGGGTGGAGACTGGAAGTATTTCTGTTTTTCAGCTCCTTGGCTTTTTG
1751 1800
TCCCTTTAGATGAGATCTCCTCCTCACTTTACACACAGAAAGATCACACA
1801 1850
CGAGGGAGAACTGGCGGTGCGGAAGAGGGCTACACGGTAGGGTGTCAGGG
1851 1900
TCAGGAGATCTTCCTGGCAAGTCTCAAACCTCCACATAGCACAGTGTTTA
1901 1950
CGTGAGGATTTAGGAGGAATCAGGAAGAGGATTGGTTTACTGCAGAGCAG
1951 2000
ACCATATAGGTCCACTCCTAAGCCCCATTTGAAATTAGAAGTGAGACAGT
2001 2050
GTGGGATAAAAAGAGCAGATCTCTGGTCACATTTTTTAAAGGGATATGAGG
2051 3000
GTCCTGTGCCTTTAAGCCTTCCCATCTCCCTCCAATCCCCCTCACCTTC

2101 2150
 CCCACCCTAACCCCTCCCCAGGTTTCTGGAGGAGCAGAGTTGCGTCTTCTC
 2151 2200
 CCTGCCCTGCCGAGCTGCTCACTGGCTGCTCTAGAGGCTGTGCTTTGCGG
 2201 2250
 TCTCCATGGAAACCATTAGTTGCTAAGCAACTGGAGCATCATCTGTGCTG
 2251 2300
 AGCTCAGGTCCTATCGAGTTCACCTAGCTGAGACACCCACGCCCTGCAG
 2301 2350
 CCACTTTGCAGTGACAAGCCTGAGTCTCAGGTTCTGCATCTATAAAAACG
 2351 2400
 AGTAGCCTTTCAGGAGGGCATGCAGAGCCCCCTGGCCAGCGTCTAGAGGA
 2401 2450
 GAGGTGACTGAGTGGGGCCATGTCACCTCGTCCATGGCTGGAGAACCTCCA
 2451 2500
 TCAGTCTCCCAGTTAGCCTGGGGCAGGAGAGAACCAGAGGAGCTGTGGCT
 2501 2550
 GCTGATTGGATGATTTACGTACCCAATCTGTTGTCCCAGGCATCGAACCC
 2551 2600
 CAGAGCGACCTGCACACATGCCACCGCTGCCCCGCCCTCCACCTCCTCTG
 2601 2650
 CTCCTGGTTACAGGATTGTTTTGTCTTGAAGGGTTTTGTTGTTGCTACTT
 2651 2700
 TTTGCTTTGTTTTTTCTTTTTTAACATAAGGTTTCTCTGTGTAGCCCTAG
 2701 2750
 CTGTCCTGGAACCTCACTCTGTAGACCAGGCTGGCCTCAAACCTCAGAAATC
 2751 2800
 CACCTTCCTCCCAAGTGCTGGGATTAAAGGCATTCGCACCATCGCCCAGC
 2801 2850
 CCCCAGTCTTGTTTCCTAAGGTTTTCTGCTTTACTCGCTACCCGTTGCA
 2851 2900
 CAACCGCTTGCTGTCCAAGTCTGTTTGTATCTACTCCACCGCCCACTAGC
 2901 2950
 CTTGCTGGACTGGACCTACGTTTACCTGGAAGCCTTCACTAACTTCCCTT
 2951 3000
 GTCTCCACCTTCTGGAGAAATCTGAAGGCTCACACTGATACCCTCCGCTT

3001 3050
 CTCCCAGAGTCGCAGTTTCTTAGGCCTCAGTTAAATACCAGAATTGGATC
 3051 3100
 TCAGGCTCTGCTATCCCCACCCTACCTAACCAACCCCCTCCTCTCCCATC
 3101 3150
 CTTACTAGCCAAAGCCCTTTCAACCCTTGGGGCTTTTCCTACACCTACAC
 3151 3200
 ACCAGGGCAATTTTAGAACTCATGGCTCTCCTAGAAAACGCCTACCTCCT
 3201 3250
 TGGAGACTGACCCTCTACAGTCCAGGAGGCAGACACTCAGACAGAGGAAC
 3251 3300
 TCTGTCCTTCAGTCGCGGGAGTTCCAGAAAGAGCCATACTCCCCTGCAGA
 3301 3350
 GCTAACTAAGCTGCCAGGACCCAGCCAGAGCATCCCCCTTTAGCCGAGGG
 3351 3400
 CCAGCTCCCCAGAATGAAAAACCTGTCTGGGGCCCCCTCCCTGAGGCTACA
 3401 3450
 GTCGCCAAGGGGCAAGTTGGACTGGATTCCCAGCAGCCCCCTCCCACTCCG
 3451 3500
 AGACAAAATCAGCTACCCTGGGGCAGGCCTCATTGGCCCCAGGAAACCCC
 3501 3550
 AGCCTGTCAGCACCTGTTCCAGGATCCAGTCCCAGCGCAGTA
 3551

3592

On page 177, please amend the paragraph containing line 1, as follows:

AFP-TRE. SEQ ID NO:8.
 1 GCATTGCTGTGAACTCTGTACTTAGGACTAACTTTGAGCAATAACACACATAGATTGAG
 61 GATTGTTTGCTGTTAGCATACAACTCTGGTTCAAAGCTCCTCTTTATTGCTTGTCTTGG
 121 AAAATTTGCTGTTCTTCATGGTTTCTCTTTTCACTGCTATCTATTTTTCTCAACCACTCA
 181 CATGGCTACAATAACTGTCTGCAAGCTTATGATTCCCAAATATCTATCTCTAGCCTCAAT
 241 CTTGTTCCAGAAGATAAAAAGTAGTATTCAAATGCACATCAACGTCTCCACTTGGAGGGC
 301 TTAAAGACGTTTCAACATACAAACCGGGGAGTTTTGCCTGGAATGTTTCCTAAAATGTGT
 361 CCTGTAGCACATAGGGTCTCTTGTTCCTTAAAATCTAATTACTTTTAGCCCAGTGCTCA

421 TCCCACCTATGGGGAGATGAGAGTGAAAAGGGAGCCTGATTAATAATTACACTAAGTCAA
481 TAGGCATAGAGCCAGGACTGTTTGGGTAACTGGTCACCTTATCTTAACTAAATATATC
541 CAAAACTGAACATGTACTTAGTTACTAAGTCTTTGACTTTATCTCATTTCATACCACTCAG
601 CTTTATCCAGGCCACTTATGAGCTCTGTGTCCTTGAACATAAAATACAAATAACCGCTAT
661 GCTGTTAATTATTGGCAAATGTCCCATTTTCAACCTAAGGAAATACCATAAAGTAACAGA
721 TATACCAACAAAAGGTTACTAGTTAACAGGCATTGCCTGAAAAGAGTATAAAAGAATTTTC
781 AGCATGATTTTCCATATTGTGCTTCCACCACTGCCAATAACA (822)

Beginning on page 177 and ending on page 178, please amend the paragraph containing line 40 (page 177), as follows:

Probasin -TRE SEQ ID NO:9

-426

5' -AAGCTTCCACAAGTGCATTTAGCCTCTCCAGTATTGCTGATGAATCCACAGT

TCAGGTTCAATGGCGTTCAAACTTGATCAAAAATGACCAGACTTTATATTTA

CACCAACATCTATCTGATTGGAGGAATGGATAATAGTCATCATGTTTAAACAT

CTACCATTCCAGTTAAGAAAATATGATAGCATCTTGTTCCTTAGTCTTTTTCTTA

ARE - 1

ATAGGGACATAAAGCCCACAAATAAAAATATGCCTGAAGAATGGGACAGGC

ATTGGGCATTGTCCATGCCTAGTAAAGTACTCCAAGAACCTATTTGTATACTA

ARE - 2

GATGACACAATGTCAATGTCTGTGTACAACCTGCCAACTGGGATGCAAGACAC

TGCCCATG**CCAAT**CATCCTGAAAAGCAGCT**TATAAAAA**GCAGGAAGCTACTCT

CAAT box

TATAA box

+1

+28

GCACCTTGTTCAGTAGGTCCAGATACCTACAG-3'

Transcription site

On page 178, please amend the paragraph containing line 6, as follows:

Tyrosinase-TRE SEQ ID NO:10

PinAl end

1 CCGGTTGAAAATGATAAGTTGAATTCTGTCTTCGAGAACATAGAAAAGAA

51 TTATGAAATGCCAACATGTGGTTACAAGTAATGCAGACCCAAGGCTCCCC
 101 AGGGACAAGAAGTCTTGTGTAACTCTTTGTGGCTCTGAAAGAAAGAGAG
 151 AGAGAAAAGATTAAGCCTCCTTGTGGAGATCATGTGATGACTTCCTGATT
 201 CCAGCCAGAGCGAGCATTTCATGGAACTTCTCTTCCTCTTCACTCGAG
 251 ATTACTAACCTTATTGTTAATATTCTAACCATAAGAATTAACTATTAAT
 301 GGTGAATAGAGTTTTTCACTTTAACATAGGCCTATCCCACTGGTGGGATA
 351 CGAGCCAATTGAAAGAAAAAGTCAGTCATGTGCTTTTCAGAGGATGAAA
 401 GCTTAAGATAAAGACTAAAAGTGTGTTGATGCTGGAGGTGGGAGTGGTATT
 451 ATATAGGTCTCAGCCAAGACATGTGATAATCACTGTAGTAGTAGCTGGAA
 501 AGAGAAATCTGTGACTCCAATTAGCCAGTTCCTGCAGACCTTGTGA

PinAl end

Beginning on page 178 and ending on page 188, please amend the paragraph containing line 20
 (page 178), as follows:

Human glandular kallikrein-TRE SEQ ID NO:11

gaattcagaa ataggggaag gttgaggaag gacactgaac tcaaagggga tacagtgatt 60
 ggtttatttg tcttctcttc acaacattgg tgctggagga attcccaccc tgaggttatg 120
 aagatgtctg aacacccaac acatagcact ggagatatga gctcgacaag agtttctcag 180
 ccacagagat tcacagccta gggcaggagg aactgtacg ccaggcagaa tgacatggga 240
 attgcgctca cgattggctt gaagaagcaa ggactgtggg aggtgggctt ttagtaaca 300
 agagggcagg gtgaactctg attcccatgg gggaatgtga tggctctgtt acaaattttt 360
 caagctggca gggaataaaa cccattacgg tgaggacctg tggagggcgg ctgccccaac 420
 tgataaagga aatagccagg tgggggcctt tcccattgta ggggggacat atctggcaat 480
 agaagccttt gagacccttt aggggtacaag tactgaggca gcaaataaaa tgaaatctta 540
 tttttcaact ttatactgca tgggtgtgaa gatatatgtg tttctgtaca gggggtgagg 600
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 aagtacagtc aataacatta aagcctcagg aggagaaaag aataggaaag gaggaaatat 1440
 gtgaataaat agtagagaca tgtttgatgg attttaaaat atttgaaaga cctcacatca 1500
 aaggattcat accgtgccat tgaagaggaa gatggaaaag ccaagaagcc agatgaaagt 1560
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B¹⁹
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On page 188, please amend the paragraph containing line 37, as follows:

B²⁰
HRE-TRE SEQ ID NO:12

ccccgagg cagtgcac gaggtcagg gcgtgcgt gactgcagcagaccccc gggtgcag gccgga

Beginning on page 188 and ending on page 193, please amend the paragraph containing line 42, as follows:

B²¹
PSA-TRE SEQ ID NO:13

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 actctaattt ggcaggatac tccaaagcat tagagatgac ctcttgcaaa gaaaaagaaa 660
 tggaaaagaa aaagaaagaa aggaaaaaaa aaaaaaaaaa gagatgacct ctcaggctct 720
 gaggggaaac gcctgaggtc tttgagcaag gtcagtcctc tgttgacag tctccctcac 780
 agggtcattg tgacgatcaa atgtggtcac gtgtatgagg caccagcaca tgccctggctc 840
 tggggagtgc cgtgtaagtg tatgcttgca ctgctgaatg gctgggatgt gtcagggatt 900
 atcttcagca cttacagatg ctcatctcat cctcacagca tcactatggg atgggtatta 960
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 cttgaccctc tcttttaggg ctctttctga cctccaccat ggtactagga cccattgta 1200
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tttgattttg gaggtagaag acgtggaagt agctgtcaga tttgacagtg gccatgagtt 3480
ttgtttgatg gggaatcaaa caatggggga agacataagg gttggcttgt taggttaagt 3540
tgcgttgggt tgatggggtc ggggctgtgt ataatgcagt tggattgggt tgtattaaat 3600

tggggtgggt caggtttttg ttgaggatga gttgaggata tgcttgggga caccggatcc 3660
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 aataaccaac tttttgaaa ttgatgaaat cttacggagt taacagtgga ggtaccaggg 4320
 ctcttaagag ttcccgattc tcttctgaga ctacaaattg tgattttgca tgccacctta 4380
 atcttttttt tttttttttt aaatcgaggt ttcagtctca ttctatttcc caggctggag 4440
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 gcttcggtct cccaatagct aagactacag tagtccacca ccatatccag ataattttta 4560
 aatttttttg ggggcccggc acagtggctc acgcctgtaa tcccaacacc atgggaggct 4620
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 tgtaatccca gctactgagg aggctgaggc aggagaatca cttgaacca gaaggcagag 4800
 gttgcaatga gccgagattg cgccactgca ctccagcctg ggtgacagag tgagactctg 4860
 tctcaaaaaa aaaaaatttt tttttttttt ttgtagagat ggatcttgct ttgtttctct 4920
 ggttggcctt gaactcctgg cttcaagtga tcctcctacc ttggcctcgg aaagtgttgg 4980
 gattacaggc gtgagccacc atgactgacc tgtcgttaat cttgaggtac ataaacctgg 5040
 ctctaaagg cttaaaggcta aatatttgtt ggagaagggg cattggattt tgcattgagga 5100
 tgattctgac ctgggagggc aggtcagcag gcattctctgt tgcacagata gattgtacag 5160
 gtctggagaa caaggagtgg ggggttattg gaattccaca ttgtttgctg cacgttggat 5220
 tttgaaatgc tagggaactt tgggagactc atatttctgg gctagaggat ctgtggacca 5280

caagatcttt ttatgatgac agtagcaatg tatctgtgga gctggattct gggttgggag 5340
tgcaaggaaa agaattgtact aaatgccaaag acatctatct caggagcatg aggaataaaa 5400
gttctagttt ctggtctcag agtggtgcat ggatcaggga gtctcacaat ctctgagtg 5460
ctggtgtctt agggcacact gggctctgga gtgcaaagga tctaggcacg tgaggctttg 5520
B²¹ tatgaagaat cggggatcgt acccaccctt tgtttctgtt tcatcctggg catgtctcct 5580
ctgcctttgt ccctagatg aagtctccat gagctacaag ggcttggtgc atccagggtg 5640
atctagtaat tgcagaacag caagtgctag ctctccctcc ccttccacag ctctgggtgt 5700
gggagggggt tgtccagcct ccagcagcat ggggagggcc ttggtcagcc tctgggtgcc 5760
agcagggcag gggcggagtc ctggggaatg aaggttttat agggctcctg ggggaggctc 5820
cccagcccca agctt 5835

On page 194, please amend the paragraph, as follows:

CEA TRE SEQ ID NO: 14

B²²

aagcttttta gtgctttaga cagtgaagct gtctgtctaa cccaagtac ctgggtcca	60
tactcagccc cagaagtga ggggtgaagct ggggtggagcc aaaccaggca agcctaccct	120
cagggtcccc agtggcctga gaaccattgg acccaggacc cattacttct agggtaagga	180
aggtacaaac accagatcca accatggtct ggggggacag ctgtcaaatz cctazaaata	240
tacctgggag aggagcaggc aaactatcac tgccccaggt tctctgaaca gaazcagagg	300
ggcaacccaa agtccaaatc cagggtgagca ggtgcaccaa atgcccagag atatgacgag	360
gcaagaagtg aaggaaccac ccctgcacaa aatgttttgc atgggaagga gaaggggggt	420
gtcatgttc ccaatccagg agaatgcatt tgggatctgc cttcttctca ctccttggtt	480
agcaagacta agcaaccagg actctggatt tgggaaaga cgtttatttg tggaggacag	540
tgatgacaat ccacgaggg cctaggtgaa gagggcagga aggtctgaga cactggggac	600
tgagtgaana ccacacccat gatctgcacc acccatggat gtccttcat tgctacctt	660
tctgttgata tcagatggcc ccattttctg taccttcaca gaaggacaca ggctagggtc	720
tgtgcatggc cttcatcccc ggggccatgt gaggacagca ggtgggaaag atcatgggtc	780
ctcctgggtc ctgcagggcc agaacattca tcaccatac tgacctcta gatgggaatg	840
gcttccctgg ggtggggcca acggggcctg ggcaggggag aaaggacgtc aggggacagg	900
gaggaagggg catcgagacc cagcctggaa ggttcttgc tctgaccatc caggatttac	960
ttcctgcat ctaccttgg tcattttecc tcagcaatga ccagctctgc ttcctgatct	1020
cagcctccca ccctggacac agcacccag tccctggccc ggctgcatcc acccaatacc	1080
ctgataaccc aggaccatt acttctaggg taaggagggt ccaggagaca gaagctgagg	1140
aaaggtctga agaagtcaca tctgtcctgg ccagagggga aaaacatca gatgtgaac	1200
caggagaatg ttgaccagg aaagggaccg aggacccaag aaaggagtca gaccaccagg	1260
gtttgcctga gaggaaggat caaggccccg agggaaagca gggctggctg catgtgcagg	1320
acactgggtg ggcataatgt tcttagatc tccctgaatt cagtgtccct gccatggcca	1380
gactctctac tcaggcctgg acatgctgaa ataggacaat ggccttgctc tctctccca	1440
ccatttgcca agagacataa aggacattcc aggacatgcc ttcctgggag gtccaggttc	1500
tctgtctcac acctcaggga ctgtagttac tgcacagcc atggtaggtg ctgatctcac	1560
ccagcctgtc caggcccttc cactctccac ttgtgacca tgtccaggac caccctcag	1620
atcctgagcc tgcataatcc cccttgctgg gtgggtggat tcagtaaaaa gtgagctcct	1680

On page 203, please amend the paragraph containing line 5, as follows:

Mucin-TRE SEQ ID NO:15

B²³

cgagcggccc ctcagcttcg gcgcccagcc ccgcaaggct cccggtgacc actagagggc 60
gggaggagct cctggccagt ggtggagagt ggcaaggaag gaccctaggg ttcacgag 120
cccaggttta ctcccttaag tggaaatttc ttccccact cctccttggc tttctccaag 180
gagggaaacc aggtgctgg aaagtccggc tggggcgggg actgtgggtt caggggagaa 240
cggggtgtgg aacgggacag ggagcggtta gaagggtggg gctattccgg gaagtgggtg 300
ggggagggag cccaaaacta gcacctagtc cactcattat ccagccctct tatttctcgg 360
ccgctctgct tcagtggacc cggggagggc ggggaagtgg agtgggagac ctaggggtgg 420
gcttcccgac cttgctgtac aggacctga cctagctggc tttgttccc atccccacgt 480
tagttgttgc cctgaggcta aaactagagc ccagggggccc caagttccag actgcccctc 540
ccccctcccc cggagccagg gagtgggttg tgaaagggg aggccagctg gagaacaaac 600
gggtagtcag ggggttgagc gattagagcc cttgtaccct acccaggaat ggttggggag 660
gaggaggaag aggtaggagg taggggaggg ggcgggggtt tgtcacctgt cacctgctcg 720
ctgtgcctag ggcgggcggg cggggagtgg ggggaccggt ataaagcggg aggcgcctgt 780
gcccgtcca cctctcaagc agccagcgcc tgctgaatc tgttctgcc cctccccacc 840
catttcacca ccaccatg 858

Beginning on page 203 and ending on page 208, please amend the paragraph containing line 55 (page 203), as follows:

αFP-TRE SEQ ID NO:16

B²⁴

gaattcttag aaatatgggg gtaggggtgg tgggtgtaat tctgttttca ccccataggt 60
gagataagca ttgggttaaa tgtgctttca cacacacatc acatttcata agaattaagg 120
aacagactat gggctggagg actttgagga tgtctgtctc ataacacttg ggttgtatct 180
gttctatggg gcttgtttta agcttggcaa cttgcaacag ggttactga ctttctcccc 240
aagcccaagg tactgtctc tttcatatc tgttttgggg cctctggggc ttgaatatct 300
gagaaaatat aaacatttca ataatgttct gtggtgagat gagtatgaga gatgtgtcat 360

tcatttgtat caatgaatga atgaggacaa ttagtgtata aatccttagt acaacaatct 420
 gagggtaggg gtggtactat tcaatttcta ttataaaga tacttatttc tatttattta 480
 tgcttgtgac aaatgttttg ttcgggacca caggaatcac aaagatgagt ctttgaattt 540
 aagaagttaa tgggtccagga ataattacat agcttacaaa tgactatgat ataccatcaa 600
 acaagagggt ccatgagaaa ataatctgaa aggtttaata agttgtcaaa ggtgagaggg 660
 ctcttctcta gctagagact aatcagaaat acattcaggg ataattattt gaatagacct 720
 taagggttgg gtacattttg ttcaagcatt gatggagaag gagagtgaat atttgaaaac 780
 attttcaact aaccaaccac ccaatccaac aaacaaaaaa tgaaaagaat ctcaaaaaca 840
 gtgagataag agaaggaatt ttctcacaac ccacacgtat agtcaactg ctctgaagaa 900
 gtatatatct aatattttaac actaacatca tgctaataat gataataatt actgtcattt 960
 tttaatgtct ataagtacca ggcatttaga agatattatt ccatttatat atcaaaaataa 1020
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 tgataggcat ttaatagttt taaagaatta atgtatttag atgaattgca taccaaattc 4860
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 gaaaagagta taaaagaatt tcagcatgat tttccatatt gtgcttcac cactgccaat 5220
 aaca 5224